



Course Syllabus of Epidemiology

Faculty: Medicine and health sciences
Department: Health Sciences
Program: Bachelor in Medical laboratory

I. General information about the course instructor:							
Name	Dr. Essam Alsafad	Office Hours(3 Hours Weekly)					
Location & phone number	Sana'a: 771772122	Sat	Sun	Mon	Tue	Wed	Thu
Email	essamalsafadi@gmail.com			1		1	

II. General information about the course:					
1. Course Title :	Epidemiology				
2. Course Code and Number :	BML231				
3. Credit Hours :	Credit Hours				Total
	Theoretical	Seminar/Tutorial	Practical	Training	
	2	-	-	-	2
4. Study Level and Semester:	2 nd year, 1 st semester				
5. Pre-requisites :	BMD16				
6. Co-requisites :	None				
7. Program in which the course is offered:	Bachelor in Medical laboratory				
8. Teaching Language:	English				
9. Instruction location:	University of Science and Technology, Sana'a ,Yemen				

III. Course Description	
<p>The course introduces basic concepts of the distribution and determinants of health-related states and events in specific populations, and considers how the application of epidemiology including epidemiological studies ,epidemics and natural history of the disease can seek to prevent and control health problems. The course is based on lectures as well as seminars, group discussion, collaborative learning, and problem solving. The students will be evaluated through written exam and report evaluation. Biostatistics course is a prerequisite course.</p>	

عميد الكلية:
د. عبد الله المخلافي

رئيس القسم:
د. عبد الحبيب رومان

المراجع :
د. مهدي القرواني
د. مجاهد نصار

الموصف :
د. عصام الصفدي

IV. Course Aims: This course is aimed to:


1. Provide students with a basic knowledge about the concept of epidemiology, epidemiological studies, natural history of disease and outbreak investigation including diseases association and causation toward health promotion.
2. Learn the students to understand the significant role of epidemiology in disease prevention and control.
3. Improve the skills of the student to distinguish between different types of epidemiological studies
4. Enable students to understand the outbreak investigation.

V. Course Intended Learning Outcomes (CILOs) :

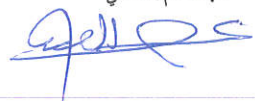
- 1- List strengths and weaknesses of cross-sectional, case control, cohort studies and interventional studies.
- 2- Identify the distinction between association and causation
- 3- Outline the processes of outbreak investigation in controlling the epidemics..
- 4- Calculate specific rates ,ratio and proportions of diseases incidence, prevalence and calculate the risks and specificity tests from samples of relevant data.
- 5- Draw the different study design showing the time flow. .
- 6- Collect, calculate and interpret the results and report the findings.
- 7- Apply measures to calculate the risk of association between exposure and effects.
- 8- Respect academic/medical staff and colleagues and patient privacy and participate in public health visiting about epidemiological measures in Yemen.



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د. مجاهد نصار

الموصف :
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VI. Course Contents				
Theoretical and analytical Aspect:				
No.	Course Units	Sub-topics	Week due	Contact Hours
1	Introduction to epidemiology	5. Concept of health and disease 6. Definition and types of epidemiology. 7. Distribution and determines of disease. 8. Measures in epidemiology.	1 st -3 rd	6
2	Prevention and control of disease	4. Definition 5. Level of prevention 6. Natural history of disease	4 th -5 th	4
3	Epidemiological studies	8. Classification of epidemiological studies 9. Cross-sectional study 10. Case control study 11. Cohort study 12. Interventional studies 13. Advantages and disadvantages of the studies 14. Uses of epidemiological studies	6 th -10 th	10
4	Health and diseases	4. Outbreak investigation 5. Chain of infection 6. Association and causation	11 th -14 th	8
5	Final exam	Written exam	15 th	2
Total number of weeks and hours			15	30

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